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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Michael R. Hayden et al.

Art Unit: 1616

DEC 08 2000

Serial No.: 09/654,323

Examiner:

TECH CENTER 1600/2900

Filed: September 1, 2000

Title: Compositions and Methods for Modulating HDL Cholesterol and Triglyceride Levels

Assistant Commissioner For Patents
Washington, DC 20231INFORMATION DISCLOSURE STATEMENT

Applicant submits the references listed on the attached form PTO 1449.

Submission of this statement is not a representation that a search has been made nor is information included in this statement an admission that the information is material to patentability.

Under 35 USC 120, this application relies on the earlier filing date of application serial number 09/526,193, filed on March 15, 2000. Certain references were submitted to the Office in the prior application and, therefore, are not provided in this application. A copy of the previously submitted form PTO-1449 from the parent application is enclosed.

If there are any other charges, or any credits, please apply them to Deposit Account No. 03-2095.

Respectfully submitted,

Date:

November 29, 2000

for

Paul T. Clark

Reg. No. 30,162

Mary Rox Scyzfara Reg. No. 36,268

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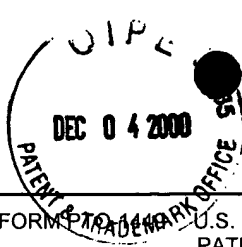
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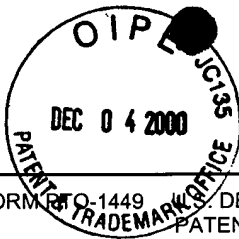
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SUBSTITUTE FORM PTO 1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		Attorney Docket No.	50110/002005	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				Serial No.	09/526,193	
				Applicant	Michael R. Hayden et al.	
				Filing Date	March 15, 2000	
				Group		
(37 CFR §1.98(b))				IDS Filed	November 6, 2000	
U.S. PATENTS						
Examiner's Initials	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (If Appropriate)
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION						
Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)
	WO 98/37764	03.09.98	PCT			
	WO 98/51351	19.11.98	PCT			
	WO 00/18912	06.04.00	PCT			
	WO 99/31133	24.06.99	PCT			
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)						
	Allikmets <i>et al.</i> , "Organization of the ABCR Gene: Analysis of Promoter and Splice Junction Sequences," <i>Gene</i> 215:111-122 (1998).					
	Allikmets <i>et al.</i> , "Characterization of the Human ABC Superfamily: Isolation and Mapping of 21 New Genes Using the Expressed Sequence Tags Database," <i>Hum. Mol. Genet.</i> 5:1649-1655 (1996).					
	Bodzioch <i>et al.</i> , "The Gene Encoding ATP-binding Cassette Transporter 1 Is Mutated in Tangier Disease," <i>Nat. Genet.</i> 22:347-351 (1999).					
	Borst P., "Multidrug Resistant Proteins," <i>Semin. Cancer Biol.</i> 3:131-134 (1997).					
	Brooks-Wilson <i>et al.</i> , "Mutations in ABC1 in Tangier Disease and Familial High-density Lipoprotein Deficiency," <i>Nat. Genet.</i> 22:336-345 (1999).					
	Dean <i>et al.</i> , "Evolution of ATP-binding Cassette Transporter Genes," <i>Curr. Opin. Gen. Dev.</i> 5:779-785 (1995).					
	Drobnick <i>et al.</i> , "Activation of Phosphatidylinositol-Specific Phospholipase C in Response to HDL Sub 3 and LDL is Markedly Reduced in Cultured Fibroblasts From Tangier Patients," <i>Arterioscler. Thromb. Vasc. Biol.</i> 15:1369-1377 (1995).					
	Kuivenhoven <i>et al.</i> , "Heterogeneity at the CETP Gene Locus: Influence on Plasma CETP Concentrations and HDL Cholesterol Levels," <i>Arterioscler. Thromb. Vasc. Biol.</i> 17:560-568 (1997).					
	Langmann <i>et al.</i> , "Molecular Cloning of the Human ATP-Binding Cassette Transporter 1 (hABC1): Evidence for Sterol-Dependent Regulation in Macrophages," <i>Biochemical and Biophysical Research Communications</i> 257:29-33 (1999).					
	Lawn <i>et al.</i> , "The Tangier Disease Gene Product ABC1 Controls the Cellular Apolipoprotein-mediated Lipid Removal Pathway," <i>J. Clin. Invest.</i> 104:R25-R31 (1999).					
	Luciani <i>et al.</i> , "Cloning of Two Novel ABC Transporters Mapping on Human Chromosome 9," <i>Genomics</i> 21:150-159 (1994).					
	Marcil <i>et al.</i> , "Cellular Cholesterol Transport and Efflux in Fibroblasts Are Abnormal in Subjects With Familial HDL Deficiency," <i>Arterioscler. Thromb. Vasc. Biol.</i> 19:159-169 (1999).					
EXAMINER			DATE CONSIDERED			
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.						

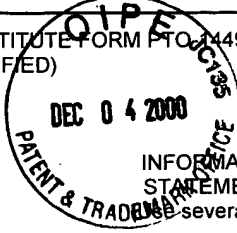


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SUBSTITUTE FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (MODIFIED) PATENT AND TRADEMARK OFFICE				Attorney Docket No. 50110/002005		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				Serial No. 09/526,193		
				Applicant Michael R. Hayden et al.		
				Filing Date March 15, 2000		
				Group		
(37 CFR §1.98(b))				IDS Filed November 6, 2000		
U.S. PATENTS						
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Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)						
	Remaley <i>et al.</i> , "Human ATP-binding Cassette Transporter 1 (ABC1): Genomic Organization and Identification of the Genetic Defect in the Original Tangier Disease Kindred," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 96 :12685-12690 (1999).					
	Rogler <i>et al.</i> , "HDL-Mediated Efflux of Intracellular Cholesterol Is Impaired in Fibroblasts From Tangier Disease Patients," <i>Arterioscler. Thromb. Basc. Biol.</i> 15 :683-690 (1995).					
	Rust <i>et al.</i> , "Assignment of Tangier Disease to Chromosome 9q31 by a Graphical Linkage Exclusion Strategy," <i>Nature Genetics</i> 20 :96-98 (1998).					
	Rust <i>et al.</i> , "Tangier disease is caused by mutations in the gene encoding ATP-binding cassette transporter 1," <i>Nature Genetics</i> 22 :352-355 (1999).					
	Savary <i>et al.</i> , "Isolation and Chromosomal Mapping of a Novel ATP-binding Cassette Transporter Conserved in Mouse and Human," <i>Genomics</i> 41 :275-278 (1997).					
	Schmitz <i>et al.</i> , "ATP-binding Cassette Transporter A1 (ABCA1) in Macrophages: A Dual Function in Inflammation and Lipid Metabolism?," <i>Pathobiology</i> 67 :236-240 (1999).					
	Wilson <i>et al.</i> , "2.2 Mb of Contiguous Nucleotide Sequence From Chromosome III of <i>C. Elegans</i> ," <i>Nature</i> 368 :32-38 (1994).					
	GenBank Accession No. AF165281					
	GenBank Accession No. P41233					
	GenBank Accession No. NM_005502					
	GenBank Accession No. X75926					
	GenBank Accession No. A54774					
	GenBank Accession No. AAC69223					
	GenBank Accession No. CAA10005					
	GenBank Accession No. AJ012376					
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SUBSTITUTE FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		Attorney Docket No. 50110/004002	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				Serial No. 09/654,323	
				Applicant Michael R. Hayden et al.	
				Filing Date September 1, 2000	
				Group	
				IDS Filed November 29, 2000	
(37 CFR §1.98(b))					
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION					
Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass
	WO 98/37764	03.09.98	PCT	X	
	WO 98/51351	19.11.98	PCT		
	WO 00/18912	06.04.00	PCT		
	WO 99/31133	24.06.99	PCT		
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DJS	Apfel <i>et al.</i> , "A novel orphan receptor specific for a subset of thyroid hormone-responsive elements and its interaction with the retinoid/thyroid hormone receptor subfamily," <i>Molecular and Cellular Biology</i> 14:7025-7035 (1994).				
DJS	Bodzioch <i>et al.</i> , "The Gene Encoding ATP-binding Cassette Transporter 1 Is Mutated in Tangier Disease," <i>Nat. Genet.</i> 22:347-351 (1999).				
	Borst P., "Multidrug Resistant Proteins," <i>Semin. Cancer Biol.</i> 3:131-134 (1997).				
	Brooks-Wilson <i>et al.</i> , "Mutations in ABC1 in Tangier Disease and Familial High-density Lipoprotein Deficiency," <i>Nat. Genet.</i> 22:336-345 (1999).				
	Dean <i>et al.</i> , "Evolution of ATP-binding Cassette Transporter Genes," <i>Curr. Opin. Gen. Dev.</i> 5:779-785 (1995).				
	Drobnick <i>et al.</i> , "Activation of Phosphatidylinositol-Specific Phospholipase C in Response to HDL Sub 3 and LDL is Markedly Reduced in Cultured Fibroblasts From Tangier Patients," <i>Arterioscler. Thromb. Vasc. Biol.</i> 15:1369-1377 (1995).				
DJS	Janowski <i>et al.</i> , "An oxysterol signalling pathway mediated by the nuclear receptor LXR α ," <i>Nature</i> 383:728-731 (1996).				
	Kuivenhoven <i>et al.</i> , "Heterogeneity at the CETP Gene Locus: Influence on Plasma CETP Concentrations and HDL Cholesterol Levels," <i>Arterioscler. Thromb. Vasc. Biol.</i> 17:560-568 (1997).				
	Langmann <i>et al.</i> , "Molecular Cloning of the Human ATP-Binding Cassette Transporter 1 (hABC1): Evidence for Sterol-Dependent Regulation in Macrophages," <i>Biochemical and Biophysical Research Communications</i> 257:29-33 (1999).				
	Lawn <i>et al.</i> , "The Tangier Disease Gene Product ABC1 Controls the Cellular Apolipoprotein-mediated Lipid Removal Pathway," <i>J. Clin. Invest.</i> 104:R25-R31 (1999).				
DJS	Lehmann <i>et al.</i> , "Activation of the nuclear receptor LXR by oxysterols defines a new hormone response pathway," <i>Journal of Biological Chemistry</i> 272:3137-3140 (1997).				
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EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.					

SUBSTITUTE FORM PTO 1449 (MODIFIED)  INFORMATION DISCLOSURE STATEMENT BY APPLICANT (See several sheets if necessary)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		Attorney Docket No. 50110/004002 Serial No. 09/654,323 Applicant Michael R. Hayden et al. Filing Date September 1, 2000 Group IDS Filed November 8, 2000
(37 CFR §1.98(b))				
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)				
	Luciani <i>et al.</i> , "Cloning of Two Novel ABC Transporters Mapping on Human Chromosome 9," <i>Genomics</i> 21:150-159 (1994).			
	Marcil <i>et al.</i> , "Cellular Cholesterol Transport and Efflux in Fibroblasts Are Abnormal in Subjects With Familial HDL Deficiency," <i>Arterioscler. Thromb. Vasc. Biol.</i> 19:159-169 (1999).			
DJS	Peet <i>et al.</i> , "Cholesterol and bile acid metabolism are impaired in mice lacking the nuclear oxysterol receptor LXRA," <i>Cell</i> 93:693-704 (1998).			
	Remaley <i>et al.</i> , "Human ATP-binding Cassette Transporter 1 (ABC1): Genomic Organization and Identification of the Genetic Defect in the Original Tangier Disease Kindred," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 96:12685-12690 (1999).			
	Rogler <i>et al.</i> , "HDL-Mediated Efflux of Intracellular Cholesterol Is Impaired in Fibroblasts From Tangier Disease Patients," <i>Arterioscler. Thromb. Basc. Biol.</i> 15:683-690 (1995).			
	Rust <i>et al.</i> , "Assignment of Tangier Disease to Chromosome 9q31 by a Graphical Linkage Exclusion Strategy," <i>Nature Genetics</i> 20:96-98 (1998).			
DJS	Rust <i>et al.</i> , "Tangier disease is caused by mutations in the gene encoding ATP-binding cassette transporter 1," <i>Nature Genetics</i> 22:352-355 (1999).			
	Savary <i>et al.</i> , "Isolation and Chromosomal Mapping of a Novel ATP-binding Cassette Transporter Conserved in Mouse and Human," <i>Genomics</i> 41:275-278 (1997).			
	Schmitz <i>et al.</i> , "ATP-binding Cassette Transporter A1 (ABCA1) in Macrophages: A Dual Function in Inflammation and Lipid Metabolism?," <i>Pathobiology</i> 67:236-240 (1999).			
DJS	Song <i>et al.</i> , "Ubiquitous receptor: a receptor that modulates gene activation by retinoic acid and thyroid hormone receptors," <i>Proc. Natl. Acad. Sci. USA</i> 91:10809-10813 (1994).			
DJS	Willey <i>et al.</i> , "LXR, a nuclear receptor that defines a distinct retinoid response pathway," <i>Genes & Development</i> 9:1033-1045 (1995).			
	Wilson <i>et al.</i> , "2.2 Mb of Contiguous Nucleotide Sequence From Chromosome III of <i>C. Elegans</i> ," <i>Nature</i> 368:32-38 (1994).			
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